



Industry
Canada

Industrie
Canada

Canada

Français
Home

Contact Us
Site Map

Help
What's New

Search
About Us

Canada Site
Registration

Strategis Index:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#)
[Z](#)

strategis.gc.ca

CIPO  OPIC

CIPO
HOME

The Canadian Intellectual Property Office

Canadian Patents Database

10/26/2001 - 14:17:47

(12) Patent Application:

(11) CA 2187050

(54) DOOR MECHANISM FOR CELLULAR TRANSCIEVER

(54) MECANISME DE CAPOT D'EMETTEUR-RECEPTEUR

[View or Download Images](#)

(72) Inventors (Country):
Leman, Ari (United States)
Humphreys, Morris (United States)
Park, Bong Choon (Republic of Korea)

(73) Owners (Country):
NOKIA MOBILE PHONES LTD. (Finland)

(71) Applicants (Country):

(74) Agent:
Sim & McBurney

(45) Issued on:

(22) Filed on:
Oct. 3 , 1996

(43) Laid open on:
May 2 , 1997

Examination requested:
Aug. 31, 1999

(51) International Class (IPC):
H05K 5/03; H04Q 7/32

Patent Cooperation Treaty (PCT): No

(30) Application priority data:

Application No.	Country	Date
08/551,375	United States	Nov. 1 , 1995

Availability of licence:
N/A

Language of filing:
English

ABSTRACT:

A unique hinge construction is provided for pivotally connecting a cover to a main body of a transceiver. The main body comprises a base and upstanding sidewalls and an endwall. Movable between a closed position generally overlying the main body and an operative angularly disposed position, the cover includes a pair of spaced apart ears projecting from an end thereof, said ears having opposed key slots formed therein being aligned with opposed mounting bores in the sidewalls adjacent the endwall. A pair of hinge shafts are rotatably received in an associated one of the mounting bores in the sidewalls on the main body. Each hinge shaft includes a key member engageable with an associated one of the key slots in the opposed ears for rotation therewith and a central member having a uniformly contoured outer surface defined by elevationally opposed convex shaped lobes, laterally opposed concave shaped depressions, and smooth transition zones joining the lobes and said depressions. A pair of spring members, each having a convex shaped surface fixed to the main body are biased into engagement with the uniformly contoured outer surface of its associated shaft means for maintaining the cover closed in one instance and in at least one operative position relative to the main body in another instance.

CLAIMS: [Show all claims](#)

*** Note: Data on abstracts and claims is shown in the official language in which it was submitted.

View or Download Images :

- ☒ Cover Page Image
- ☐ Abstract Image
- ☐ Claims Image
- ☐ Disclosures Image
- ☐ Drawings Image

[View the Image](#)[Download in Adobe PDF](#)[Top of Page](#)

Last Modified: 2001/06/13[Important notices and disclaimers](#)
[Privacy Statement](#)

ABSTRACT

A unique hinge construction is provided for pivotally connecting a cover to a main body of a transceiver. The
5 main body comprises a base and upstanding sidewalls and an endwall. Movable between a closed position generally overlying the main body and an operative angularly disposed position, the cover includes a pair of spaced apart ears projecting from an end thereof, said ears having opposed
10 key slots formed therein being aligned with opposed mounting bores in the sidewalls adjacent the endwall. A pair of hinge shafts are rotatably received in an associated one of the mounting bores in the sidewalls on the main body. Each hinge shaft includes a key member
15 engageable with an associated one of the key slots in the opposed ears for rotation therewith and a central member having a uniformly contoured outer surface defined by elevationally opposed convex shaped lobes, laterally opposed concave shaped depressions, and smooth transition
20 zones joining the lobes and said depressions. A pair of spring members, each having a convex shaped surface fixed to the main body are biased into engagement with the uniformly contoured outer surface of its associated shaft means for maintaining the cover closed in one instance and
25 in at least one operative position relative to the main body in another instance.